

ABSTRACT OF THE DISCLOSURE

If during a specific steady operation state of an engine, the actual intake pipe pressure is different from a target intake pipe pressure set during the specific steady operation state, a first correction amount for the throttle valve control value is calculated by causing the actual intake pipe pressure to become equal to the target intake pipe pressure. If at this time the actual amount of intake air is still different from a target amount of intake air set during the specific steady operation state, a second correction amount for the variable valve control value is calculated by causing the actual amount of intake air to become equal to the target amount of intake air. The second correction amount is used to further correct the throttle valve control value corrected by the first correction amount.